## (19) World Intellectual Property **Organization**

International Bureau





(43) International Publication Date 9 September 2005 (09.09.2005)

PCT

## (10) International Publication Number WO 2005/082408 A2

- A61K 39/108, (51) International Patent Classification<sup>7</sup>: 39/10, 39/112, 39/106, 39/39, 39/02, 39/00
- (21) International Application Number:

PCT/EP2005/002105

- (22) International Filing Date: 25 February 2005 (25.02.2005)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 04300100.7

26 February 2004 (26.02.2004) EP

- (71) Applicant (for all designated States except US): INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE) [FR/FR]; 101 rue de Tolbiac, F-75654 Paris Cédex 13 (FR).
- (72) Inventors; and
- Inventors/Applicants (for US only): LEMICHEZ, Emmanuel [FR/FR]; 2 rue Assalit, F-06000 Nice (FR). CZERKINSKY, Cécil [FR/FR]; Parc Vigier 2, 23 Boulevard F. Pilate, F-06300 Nice (FR). ANJUERE, Fabienne [FR/FR]; 31 bis Rue Michel-Ange, F-06100 Nice (FR). BOQUET, Patrice [FR/FR]; 2 Avenue Galliéni, F-06230 Villefranche sur Mer (FR). MUNRO, Patrick [FR/FR]; Le Brissac, 73 Boulevard Henri Sappia, F-06100 Nice (FR). FLATAU, Gilles [FR/FR]; Parc Florentin, Bloc B, 26 Avenue Sainte Marguerite, F-06200 Nice (FR).

- (74) Agents: MICHELET, Alain et al.; Cabinet Harle et Phelip, 7 rue de Madrid, F-75008 Paris (FR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## **Declaration under Rule 4.17:**

of inventorship (Rule 4.17(iv)) for US only

## **Published:**

without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A VACCINE COMPOSITION COMPRISING AN IMMUNOADJUVANT COMPOUND CONSISTING OF A RHO GTPASE FAMILY ACTIVATOR

(57) Abstract: This invention is based on the experimental finding that activators of Rho GTPases, namely the cytotoxic necrotizing factor 1 (CNF1), and DNT bear immunostimulatory properties towards the systemic response to orally administered ovalbumine. This invention concerns a vaccine composition comprising an immunoadjuvant compound, wherein said immunoadjuvant compound consists of a Rho GTPase activator.

